|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Write a program that is able to calculate salary of employees in a small **hypothetical** company. (Company name, employee name, and salary ranges can be anything – all hypothetical). The ‘user’ who is using your program can decide if they want to see annual, monthly, or bi-weekly gross income results after the calculations. The program must be built on **distributed** set of functions (or through a customized approach) which must be able to satisfy the mathematical requirements below.  **1.1 Determine Gross Income + Bonus**  The calculation process for the salaries must be done on an annual level. Accordingly, the program then must add bonus amounts to the salary. The bonus structure could be as follows:   * For annual salaries   + If less or equal to $20,000 - the company will apply a 12.5% bonus.   + If between $21,000 and $50,000 – company will apply an 11.5% bonus.   + If above $60,000 – company will apply 10.5% bonus.   + If between $51,000 and $59,000 – no bonus will be given due to a bureaucratic decision.   **1.2 Determine Net Annual Income**  In order to calculate annual net income - the program must ensure that government deductibles breakdowns like below are broken down from gross income, displayed in detail as well as a **total** **deduction** **amount**.   * Taxes (13.5%) * Benefits (5.5%) * Other government reductions (2.5%)   **1.3 Printing Pay Stub**  Finally the program should print a pay stub like the one below for at least five employees in the company. This can be either requested by user of the program, or shown as a default by you as the programmer (specific format is expected, as per below):   |  |  |  | | --- | --- | --- | | **Annual View** | **Monthly View** | **Bi-Weekly View** | | ---------------------------------------------  Company name: ABC Date of Pay-Stub: YYYY-MM-DD  ---------------------------------------------  Employee: **“Williams, Bill"** Position: **"Technical Developer"** Annual Salary: **$30,000.00**  Bonus (**11.5%**): **$3,450.00**  Gross Annual Income: **$33,450.00**  ---------------------------------------------  Deductible (Taxes 13.5%): **$4,515.75**  Deductible (Benefits 5.5%): **$1,839.75**  Deductible (Reductions 2.5%): **$836.25**  Deductibles (Total): **$7,191.75**  ---------------------------------------------  Net **Annual** Income: **$26,258.25**  ---------------------------------------------  ---------------------------------------------  *. Employee2*  *. Employee3*  *. Employee4*  *. Employee5* | ---------------------------------------------  Company name: ABC Date of Pay-Stub: YYYY-MM-DD  ---------------------------------------------  Employee: **“Williams, Bill"** Position: **"Technical Developer"** Monthly Salary: **$2,500.00**  Bonus (**11.5%**): **$287.50**  Gross Income: **$2,787.50**  ---------------------------------------------  Deductible (Taxes 13.5%): **$376.31**  Deductible (Benefits 5.5%): **$153.31**  Deductible (Reductions 2.5%): **$69.69**  Deductibles (Total): **$599.31**  ---------------------------------------------  Net **Monthly** Income: **$2,188.19**  ---------------------------------------------  ---------------------------------------------  *. Employee2*  *. Employee3*  *. Employee4*  *. Employee5* | ---------------------------------------------  Company name: ABC Date of Pay-Stub: YYYY-MM-DD  ---------------------------------------------  Employee: **“Williams, Bill"** Position: **"Technical Developer"** Bi-Weekly Salary: **$1,250.00**  Bonus (**11.5%**): **$143.75**  Gross Income: **$1,393.75**  ---------------------------------------------  Deductible (Taxes 13.5%): **$188.15**  Deductible (Benefits 5.5%): **$76.66**  Deductible (Reductions 2.5%): **$34.85**  Deductibles (Total): **$299.66**  ---------------------------------------------  Net **Bi-Weekly** Income: **$1,094.09**  ---------------------------------------------  ---------------------------------------------  *. Employee2*  *. Employee3*  *. Employee4*  *. Employee5* | |